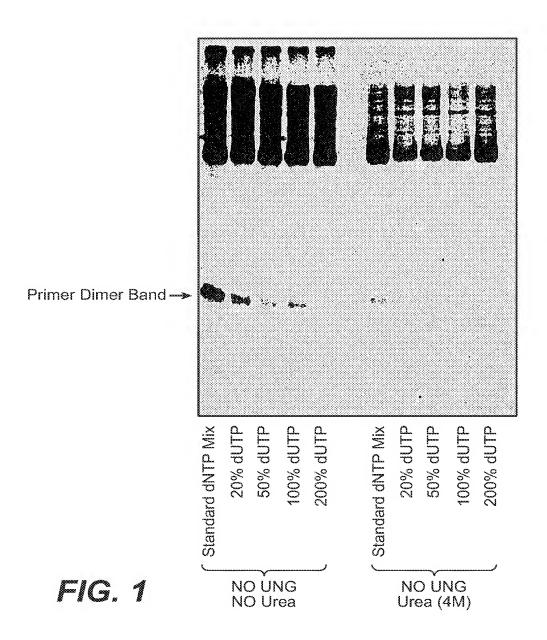
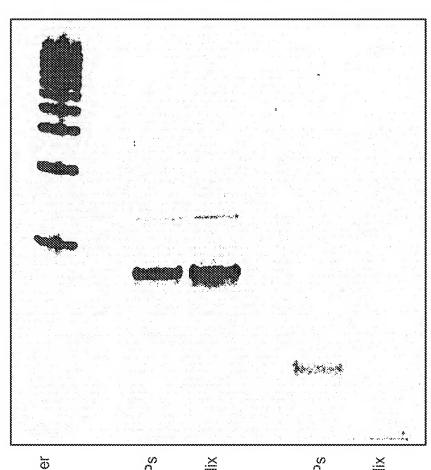
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100bp Ladder

HotMaster Taq w/ STND dNTPs
HotMaster Taq w/ 20% dUTP Mix

NTC w/ STND dNTPs

NTC w/ 20% dUTP Mix

FIG. 2A

<u>Protocol</u>		
Cycle 1: (1X)		
Step 1:	95.0C	for 01:00
Cycle 2: (40X)		
Step 1:	95.0C	for 00:20
Step 2:	53.0C	for 00:20
Step 3:	68.0C	for 00:20
Cycle 3: (1X)		

HotMaster Taq Reactions w/ STND dNTPs			
Reaction Component	Initial Concentration or Volume	Final Concentration/Volume	
QuantMaster Probe Buffer	10X	1X	
dNTP Mix			
dATP	10mM	200uM	
dCTP	10mM	200uM	
dGTP	10mM	200uM	
dTTP	10mM	200uM	
FactorVIII Forward Primer	10uM	200nM	
FactorVIII Reverse Primer	10uM	200nM	
HotMaster Taq Polymerase	5U/ul	1U	
MBGW	N/A	36.8 - 38.8 uL	
*Human gDNA (Promega)	25ng/uL	50ng	
* Not Included in NTCs	·		

HotMaster Taq Reactions w/ 20% dUTP Mix			
Reaction Component	Initial Concentration or Volume	Final Concentration/Volume	
QuantMaster Probe Buffer	10X	1X	
dNTP Mix			
dATP	10mM	200uM	
dCTP	10mM	200uM	
dGTP	10mM	200uM	
dTTP	8mM	160uM	
dUTP	2mM	40uM	
FactorVII Forward Primer	10uM	200nM	
FactorVIII Reverse Primer	10uM	200nM	
HotMaster Taq Polymerase	5U/ul	1U	
MBGW	N/A	36.8 - 38.8 uL	
*Human gDNA (Promega)	25ng/uL	50ng	
* Not Included in NTCs			

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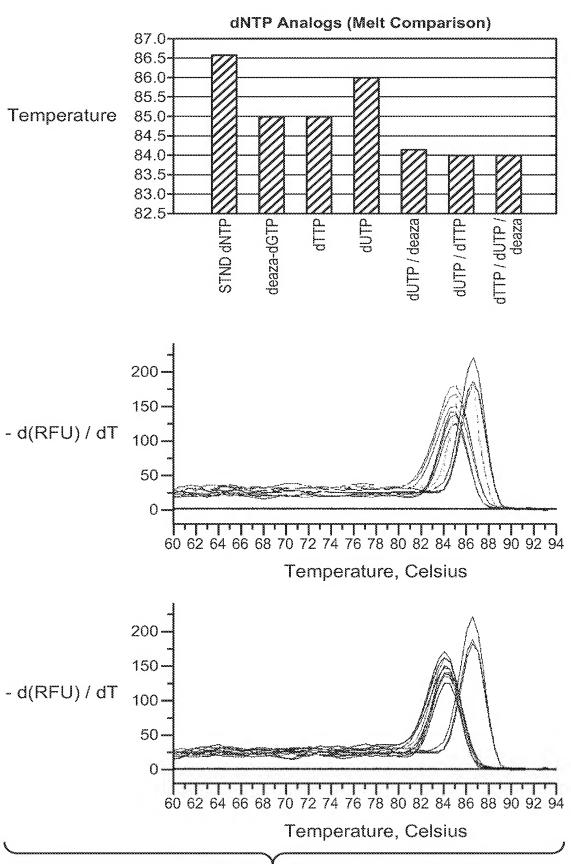
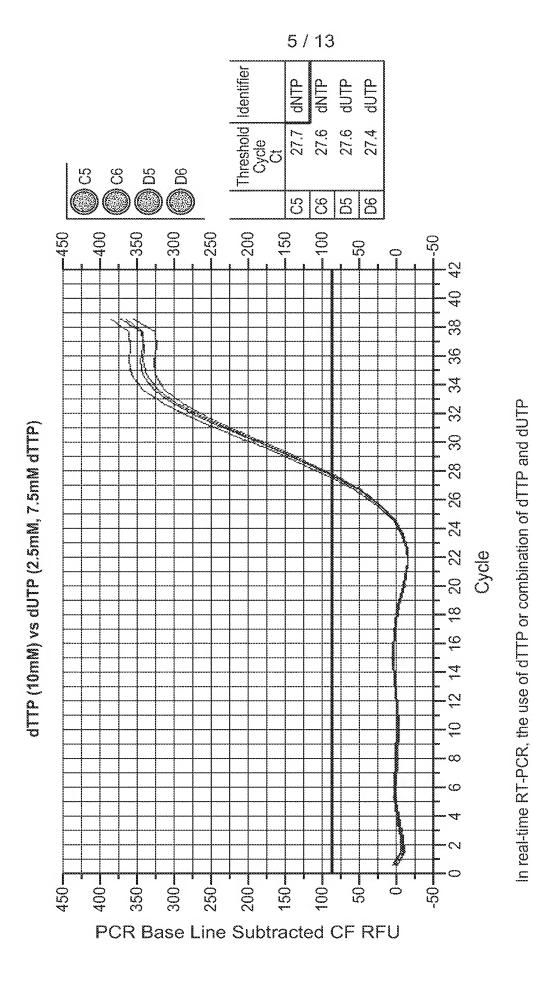


FIG. 3



does not seem to affect the Ct or RFU significantly.

Standard dNTP Mix with dTTP (10mM) vs dUTP Mix (2.5mM dUTP, 7.5mM dTTP)

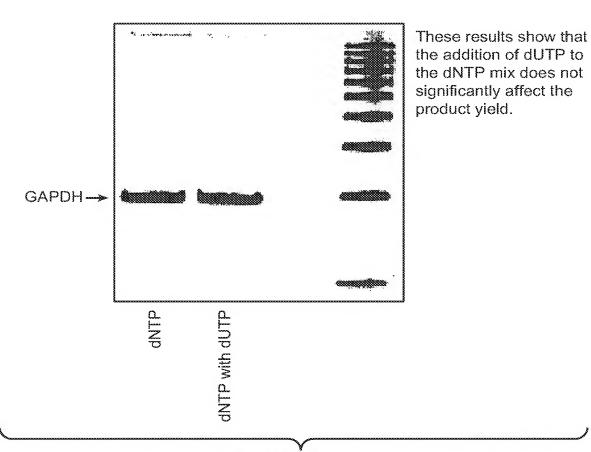
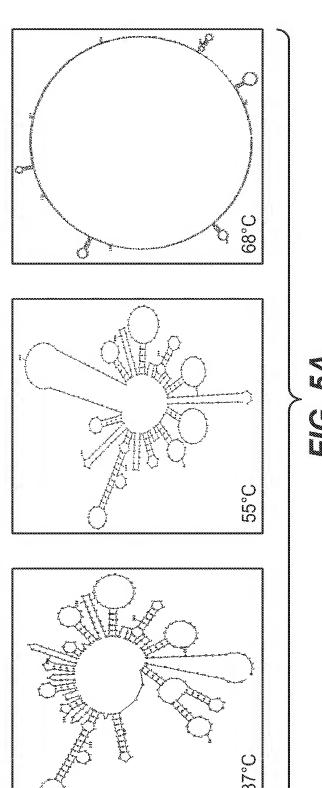


FIG. 4B

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atggatgatgatatcgccgcgctcgtcgtcgacaacggctccggcatgtgcaaggccggcttcgcgggcga togagoacggoatogtoaccaactgggacgacatggagaaaatctggcaccacaccttctacaatgagctg ggtcagaaggattcctatgtgggcgacgaggcccagagcaagagcaagaggcatcctcaccctgaagtacccca cgatgccccccgggccgtcttcccctccatcgtggggcgccccagggcaccagggcgtgatggtgggcatg cgtgtggctcccgaggagcaccccgtgctgctgaccgaggccccctgaacccaagggccaaccgcga gaagatgaccca

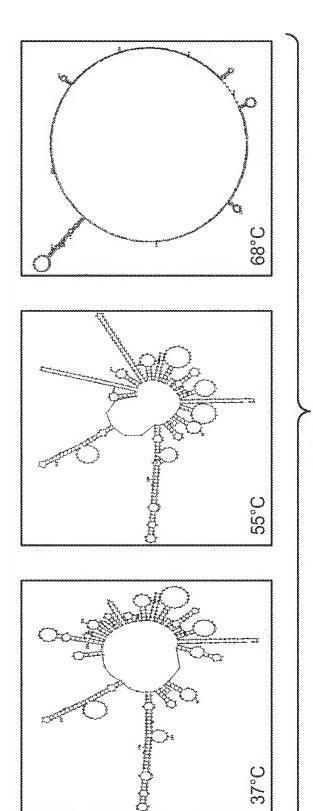
Beta-Actin mRNA Sequence

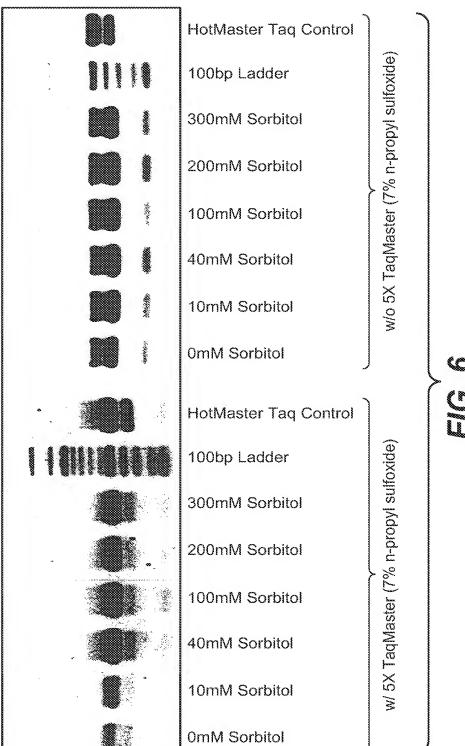


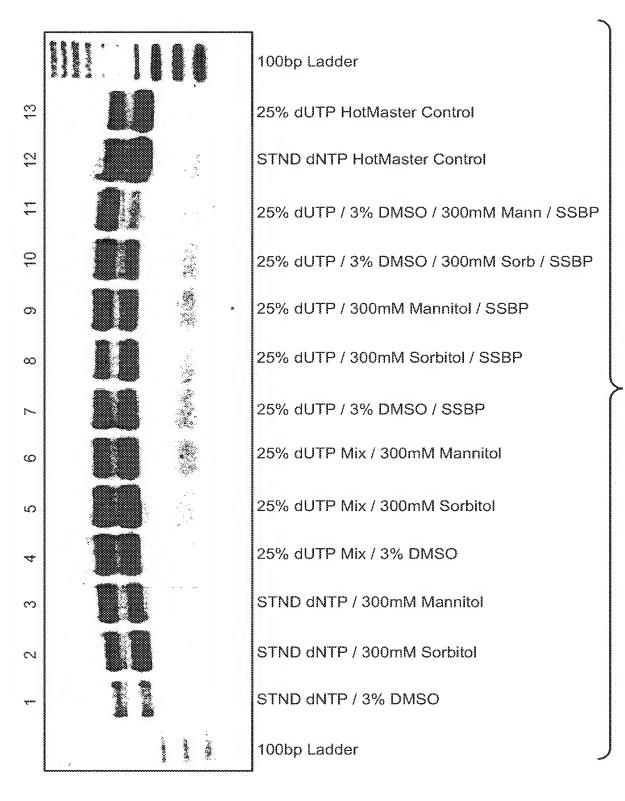
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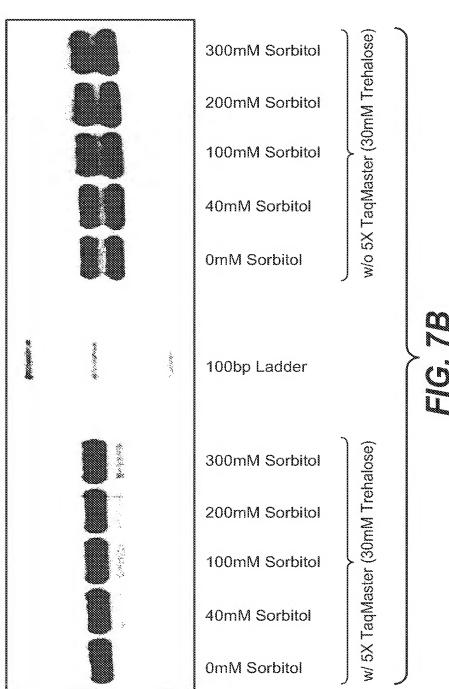
Beta-Actin Partial Gene Sequence w/ Intron

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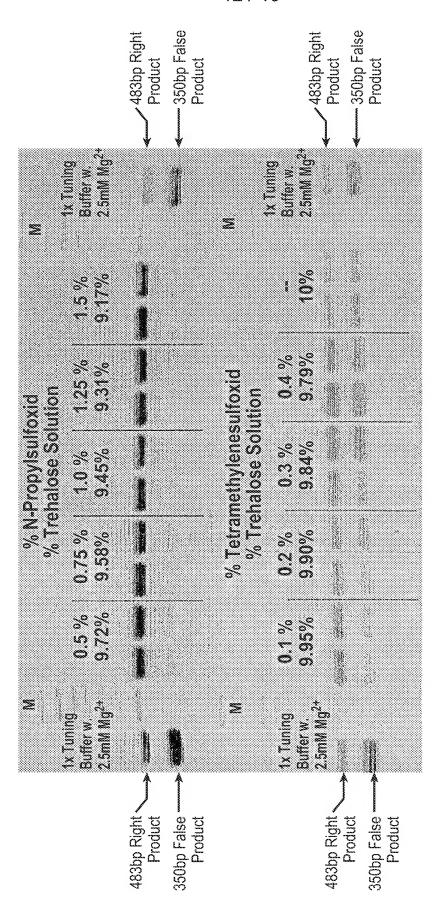




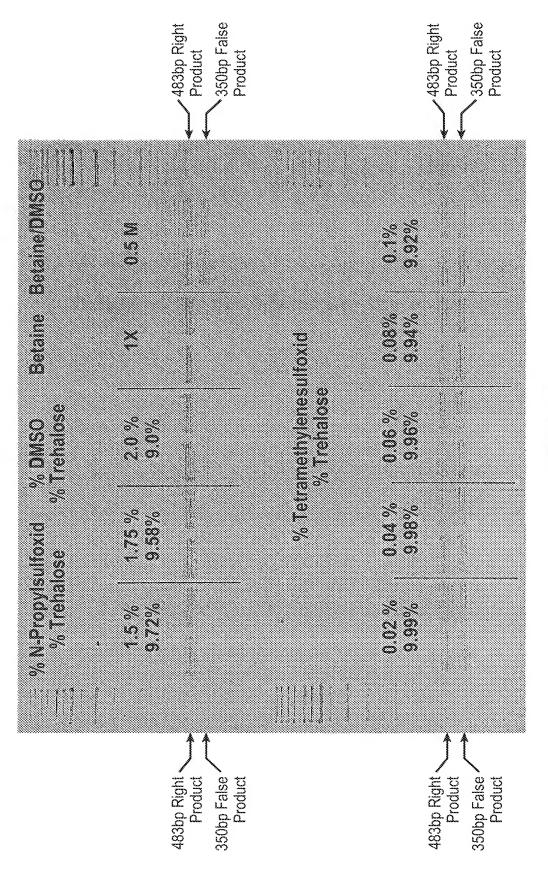




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